

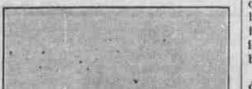
Farm and Garden

RICE IN ARKANSAS.

Coming to be one of the most important of Southern Cereals. Of all the records of wonderful progress made in the south in the last two decades, says a writer in *Kinship's Dairy Farmer*, none is more interesting or more indicative of growth along right lines than that of successful development in the ricefields of eastern Arkansas.

Along the cotton belt route in the Grand prairie and lesser cottonous prairies of Arkansas today are the visible evidences of a new prosperity more marvelous and more substantial than any one who knew conditions there six years ago could have dreamed of as being possible. This has been achieved neither by miracle nor more chance. It has been brought about by the intelligent use and employment of the ordinary means at hand. No one has ever charged that in the distribution of so-called natural advantages Arkansas was accorded more than her share. Many have voiced the belief that in the general allotment Arkansas was forgotten. In the light of recent developments in that state, as elsewhere, it may not be too early to predict that the time is coming when men will realize that in their estimate of physical or natural assets they have often made their inventories on a false hypothesis.

Rice, as is well known, cannot be grown without an abundant water



THRASHING RICE.

supply. Farmers who have attempted to raise it have started out with this knowledge and in facing the problem square have solved it. A rice farm equipped with wells with a sufficient flow to flood the ricefields becomes immediately a high class corn, truck, fruit and stock farm. Think what it means to have under absolute control an unceasing supply of pure water. Trenches carry it by gravitation to any portion of the land. With it a corn crop is helped over a temporary drought. An occasional wetting insures a splendid return from the truck patch, and with water always at hand cows almost double the quantity and more than double the quality of milk produced.

But all these are really secondary considerations with the Arkansas rice farmer. He has his eye on the main chance. It is to raise rice, which is coming to be one of the most important of southern cereals.

Save the Chunks. You can find many chunks of wood about the farm. Save them all for the stove. Big knots can be used in the "chunk" stove and have they will make it laugh on a cold, stormy day next winter! Even pieces that are a little decayed will burn nicely if they are well dried. Save them all.

The Use of fine stock on the average farm is only the exercise of good judgment.

The Hum of the Hive. Don't keep bees unless you mean to give them the proper care and attention.

Never at any time should honey be left open around the apiary, for it always leads to robbing.

Bees cannot carry on their wonderful work without water. If they will not access to natural sources in the vicinity of the apiary, water should be given to them.

A thousand colonies of bees are used annually in the cucumber greenhouses of Massachusetts to carry fertilizing pollen. There are 2,100 persons in the state who keep bees.

Taking off honey is easy and simple with the right equipment, which includes inexpensive tools—a bee smoker, bee-vel, chisel or knife for a hive tool or pry and perhaps bee gloves or wristlets.

Bees like to work better, probably, than any other living thing. They are perfectly willing to work for nothing, bound themselves and pay handsomely for the privilege of occupying an old box. There is room for a few bees on every farm. Fruit, nuts, berries and bees make a splendid combination when properly mixed.—Farm Press.

That humus-decaying vegetable mold is a requisite for the proper growth of vegetable life is shown nicely when a crop such as corn is planted on spots which have been scraped off in the process of leveling a piece of land. The growth that is made is stunted and the plants are of a sickly color. It usually requires several seasons of fertilizing and tilling to bring such spots to a normal productive capacity.

Swamp muck might be used on many a farm to good advantage as an absorbent of the moisture and liquids in the stable manure. Such treatment would arrest the fermentation and decomposition of fertilizing elements, while the truck soil would furnish a type of humus that the average soil stands much in need of. For winter use in cold latitudes the absorbent could be thoroughly dried during the summer months and stored under cover where it would be available.

The honey-wife—it is superfluous to call her so—can save herself a whole lot of hot work over the brooding board if she will fold the bed linen, towels and all of the underclothing

TREATMENT OF THE SICK HORSE.

While few are justified in attempting to treat a horse that is really sick, yet every farmer ought to be able to do something for a sick animal till professional help can be obtained. Improper feeding produces much digestive sickness in horses.

Now, a horse with an acute attack of indigestion is in the utmost need of veterinary help. There is not much use of pouring medicine into the stomach. As that organ is in a deranged condition, no assimilation of anything put into the stomach takes place, and consequently no action is obtained by administering drugs through the mouth.

The injection of concentrated medicines under the skin is the only rational way of treating such cases. No ordinary farmer has either the instruments or skill to do this. But the sick animal should be placed in a roomy box stall plentifully supplied with bedding, and a careful man should be with him to prevent, as far as possible, the patient from injuring itself when the pains are very intense.

Many a horse suffering great pain has thrown itself down violently on a hard floor and ruptured the stomach (which has been distended with gas), and thus destroyed whatever chance there might have been of successful treatment.

It always gives some relief to cases where there is great abdominal pain to take cloths wrung out of a pot of hot water and apply as hot as the patient will stand to the lower part of the abdomen. This is usually easily done, as the animal is in almost every case lying down and in many cases lying on his back. Much can be done in this way to keep the patient from injuring itself till veterinary help can be secured.

Horses suffer more from pulmonary diseases in the winter than in the summer, because the stables are not in many cases ventilated sufficiently. Poor ventilation produces lung trouble, and many a simple cough or cold develops into inflammation of the lungs just because the afflicted animal is standing in a poorly ventilated stable.

The average case of influenza or even colt distemper will not need very



SHOWS HEALTH AND SPIRIT.

much medicinal attention if the patient is allowed an abundant supply of fresh air.

Keep the body warm by plenty of clothing, stimulate the circulation in the extremities by hand rubbing the legs, keep the bowels relaxed by the use of succulent food. If the breathing is labored, apply a hot poultice to the chest and throat, and you will have gone a long way toward preventing any complications from setting in.

If a plentiful supply of fresh air is necessary to maintain a horse in good health it will be understood how necessary it must be to an animal which is suffering from any respiratory trouble. Fresh air is of the utmost importance in such cases. The most skillful medical treatment will be useless without it.

The horse should have good, pure water to drink, and if his stomach is deranged it is best not to allow him to drink a very large quantity at one time. Allow him to drink about half the amount you think he would take when in health, then wait awhile and give more. A large quantity of water at one time is apt to do more harm than good.

If the end sought is apt to be realized cleanliness is a feature of very much importance. Keep the stables clean at all times, and be careful not to give any feed that is moldy, dusty or in any way unfit for the animal to eat. Keep everything clean. Filth is one of the greatest disease promoters we have, not only with dumb brutes, but humans as well.

Horse Wisdom. Do you want a bulky horse? You can easily have one by giving him too heavy loads to draw.

There is no kind of animal breeding that will pay better than the breeding of horses, but horses that will sell, not jumpings or milks.

The floor of the hayloft should be seed and dust tight. Horses are often injured by seeds and dirt falling into their ears and eyes.

Bolting of food causes indigestion and consequently loss of health. Guard against irregular feeding. It tends to make horses bolt their food.

Management of the Ram. If a ram is to have heavy service he should be well fed. A few oats once a day, beginning a week or two previous to turning him with the ewes, will put him in good condition. He should then be able to attend to at least thirty. If the flock is a large one do not turn two or three rams in together. It is best to divide it, giving each ram twenty ewes to a separate enclosure, as a larger number of rams is always the result.

It is surprising how soon the young calves will take to eating whole corn and oats. A small ration fed daily is an excellent idea and will keep them growing from the start.

The old lady who explained the thinness of her milk to her customers by saying it was due to scarcity of food probably did not know that it is a well known fact that milk quality, butter fat content, is not affected at all by food.

Nine dollars seems like a good deal to pay for mosquito netting to protect a single cherry tree from the birds, and yet when the value of a single crop from the tree frequently totals \$50 and the netting lasts for several seasons the end is seen to justify the means.

There are few of the tender white ones that surpass the Evans Earl Druggists in purity of color, fragrance or form. In size, too, it is all that could be desired. Like other members of the rose family it requires for best results a clayey rich soil, abundant water and severe cutting, which will also be the best mode to come to maturity.

HEAD OF THE DAIRY HERD.

An inferior Bull Cure to Prove a Costly Investment.

The average farmer who is raising his own dairy calves little appreciates the net cost of a cheap or inferior bull when in search of an animal to head his herd. This is well illustrated in a herd of dairy cattle of which we have very accurate data as to the flow of milk and the amount of butter fat produced during the past four generations, writes Professor M. W. Harper of Cornell University.

In this particular herd the condition, such as the breeding of the cows, the feeding and the management were as even throughout the four generations as could be obtained in practice, so that any marked increase or decrease in the production of the offspring can be credited to the sire used.

The first sire under observation got three producing females that averaged 300 pounds of fat a year. The second bull even exceeded the first, as he got nine producing females that averaged 300 pounds of fat a year. This is a falling off of 107 pounds per cow a year. For the eight females this means a loss of 856 pounds of butter fat a year, which at 40 cents a pound means an annual loss of \$342.40 so long as these cows are retained.

If they are retained five years after they begin to produce, which is, perhaps, the average length of time for animals of this kind to breed, then the loss amounts to over \$1,700. This represents the actual loss to the farmer on account of the use of this particular sire. The female got of the fourth sire are at the present time just beginning to produce and there is not enough data at hand to judge accurately their average production.

From this illustration it would seem that the farmer or dairyman in search of an animal to head his herd should be very careful in his choice. The bull should not trust to chance, but should select an animal whose ancestors have been uniformly noted for their high production.

Feeding the Calf. The calves should be fed, but a lot of calves are fed to death. Four quarts of skimmed milk is enough for a four week old calf. As soon as any sign of bowel trouble shows in the droppings reduce the quantity of milk. Give the calf all the hay and bran it will eat and let it run on grass, but do not overfeed it.

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Look to the Horse's Feet. Horses with tender feet need lots of attention. The saddle and harness that a horse can do no more than he feet will stand.

THE FLOCKMASTER. Cheap and Fertile. Sheep are the greatest producers of all the farm stock. The old saying that the head of a flock is the head of the flock is true. Sheep breeders should be sure to get the best of the flock.

Provide Salt for the Flock. The stock should have salt constantly before it in the pasture, so the sheep can help themselves to it when they crave it. Salt is one of the essentials of success in handling sheep.

Profit in Sheep. Those who have been raising sheep in recent years have had no reason to complain. A flock well cared for adds substantially to the farm profits and exacts but a minimum of care.

Silage for Sheep. There is no reason why silage may not be fed to sheep, commencing with a small amount at first and gradually increasing the allowance as they become accustomed to it. However, it is very desirable and we might almost say indispensable that all animals feeding upon silage should have some dry forage to counteract the laxative effect of silage.

Care of Ewes. The careful man will turn and examine the udders of his ewes in the straw for breeding. Never feed rye straw to pregnant ewes. It generally contains more or less ergot, which produces abortion.

For the benefit of those who are taking up the matter of feeding special hog rations for the first time a paragraph about tankage may be of interest. This animal product, which like oilmeal, gluten meal and blood, is very rich in protein, is manufactured from the waste products of the big packing houses, such as meat trimmings, fat scraps, etc. These are put in a tank and subjected to excessive heat for several hours, when the grease is removed and the solid remains dried and ground and packed in sacks. Some tankage, made from the contents of the stomachs and bowels of slaughtered animals, is fit only for fertilizer and is usually labeled as such. The use of tankage with corn as a ration for hogs has given excellent results in feeding tests. Being a concentrated food, as it is, it should not constitute more than from 10 to 20 per cent of the ration.

The automobile who will crowd a team of a narrow highway is full brother to the teamster who is full of a chauffeur's test for half the road, and keeps his horses in a slow walk to tolerate the fellow behind him.

Live Stock Notes. Horses that are used exclusively on the farm and do no road work should go unshod.

A fattening animal should never have more food placed before it than it will eat up eagerly.

If you keep your hogs in a pen all the time don't expect to make any world astonishing profits. The hog is a natural grower.

If a cow is fed spritely with water and it will save the horse such annoyance. Better still, don't feed it at all if you can help it.

If corn is scarce sheep will beat hogs on pasture, provided they get plenty of corn, but when the hogs get plenty of corn they will range pretty well with sheep.

Experiments show that many tons of valuable hog manure can be turned in on the ground and fattened for market on what is left of the crop without other food.

How food hogs are of little value is demonstrated by the fact that if a drove of hogs is turned on a field planted in Indian corn, Kaffir-corn and millet they will devour the entire sals crop before touching either of the other grains.

St. Bell's

Dr. Bell's Pine-Tar-Honey Will break up the worst cold and allay throat irritation. This remedy quickly cures coughs, Colds, Grippe, and all throat and bronchial troubles. Sold by Conrad Stafrin.

The Klamath Water Users' association just has one trouble after another.

Chamberlain's Stomach and Liver Tablets do not sicken or gripe, and may be taken with perfect safety by the most delicate woman or the youngest child. The old and feeble will find them a most suitable remedy for aiding and strengthening their weakened digestion and for regulating the bowels. For sale by all good druggists.

Astoria is improving the good weather by doing a big lot of street work. How to plan and build dairy barns that are both sanitary and convenient, will be taught this year at the Oregon Agricultural College in a course in farm structures just introduced.

Not Sorry For Blunder. "If my friends hadn't blundered in thinking I was a doomed victim of consumption, I might not be alive now," writes T. T. Sanders, of Harrisburg, Ky., "but for years they saw every attempt to cure a lung-racking cough fail. At last I tried Dr. King's New Discovery. The effect was wonderful. It soon stopped the cough and I am now in better health than I have ever had for years. This wonderful life-saver is an unrivaled remedy for coughs, colds, lagrippe, asthma, croup, hemorrhages, whooping cough or weak lungs. \$1.00. Trial bottle free. Guaranteed by all druggists."

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Small Women Vote? If they did, millions would vote Dr. King's New Life Pills the true remedy for women. For banishing dull, fagged feelings, headache or dizziness, constipation, dispelling colds, imparting appetite and toning up the system, they're unequalled. Easy, safe, sure. 25c at all druggists.

Legal blanks for sale at this office.

A Hair's Breadth Escape. Do you know that every time you have a cough or cold and let it run on thinking it will just cure itself you are inviting pneumonia, consumption or some other pulmonary trouble? Don't risk it. Put your lungs back in perfect health and stop that cough with Ballard's Household Syrup.

Price 25c, 50c and \$1.00 per bottle. Sold by Conrad Stafrin.

Hood River is to have a fourth banking institution. Lots of money up there.

There is little danger from a cold or from an attack of the grip except when followed by pneumonia, and this never happens when Chamberlain's Cough Remedy is used. This remedy has won its great reputation and extensive sale by its remarkable cures of colds and grippe, and can be relied upon with implicit confidence. For sale by all good druggists.

A Nohalem farmer showed 15 percent of gravel stones that completely filled a 20 pound box.

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Willamette valley farmers say the ground never worked better than it is working this fall. It is in perfect condition for plowing and seeding.

Population of Stanfield is rapidly increasing: 11 families arrived there within a week.

CURED TO STAY CURED. How Dallas Citizens Can Find Complete Freedom From Kidney Troubles.

If you suffer from backache—From urinary disorders—From many diseases of the kidneys—Be cured to stay cured.

Don't's Kidney Pills make lasting cures. Grateful people testify. Here's one case of it.

Mrs. Lydia Pearson, D. St., McMinnville, Ore., says: "I do not hesitate to recommend Doan's Kidney Pills as I suffered a great deal from kidney trouble and had acute pains in the small of my back. I was also subject to headaches and felt tired nearly all the time. I tried a number of remedies but was not relieved until I began using Doan's Kidney Pills. I continued taking this remedy until I was free from kidney disease." (Statement given in August, 1917.)

Two Years Later. On Dec. 14, 1915, Mrs. Pearson, confirmed her former statement saying: "The testimonial I gave in 1917, publicly recommending Doan's Kidney Pills was correct in every particular. I am glad to confirm it."—For sale by all dealers. Price 50 cents. Foster-McMillan Co., Buffalo, New York, sole agents for the United States.

Remember the name—Doan's—and take no other.

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HERBINE

The Great Liver Tonic and Regulator That Has Done So Much for the Working People.

It is a marvelous remedy. Its stimulating effect on a Torpid Liver is little less than miraculous. It gives prompt relief to a few days' use cures the most obstinate cases of Biliousness, Headache, Dizziness, Heartburn, Constipation, Indigestion, Sour Stomach, Vertigo (blind staggers), Foul Breath, Sallow Complexion or a constant tired, discouraged feeling should use.

It acts instantly. The first dose brings relief. A few days' use cures the most obstinate cases of Biliousness, Headache, Dizziness, Heartburn, Constipation, Indigestion, Sour Stomach, Vertigo (blind staggers), Foul Breath, Sallow Complexion or a constant tired, discouraged feeling should use.

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Price 50c per Bottle.

SOLE PROPRIETOR: ST. LOUIS, MO. JAMES F. BALLARD

For sore Eyes, Granulated Lid, Redness of the Eyeball, Weak Sight, Smarting Sensations in the Eyes, use Stereas Eye Salve. It is a remedy of proven merit.

SOLD AND RECOMMENDED BY CONRAD STAFRIN

DALLAS STATION TIME CARD

SOUTHERN PACIFIC.

LEAVING DALLAS. ARRIVING DALLAS.

Passenger No. 74.....6:55 a. m.	Passenger No. 77.....11:05 a. m.
Passenger No. 76.....2:30 p. m.	Passenger No. 75.....7:50 p. m.

SALEM, FALLS CITY & WESTERN RY.

East Bound.	West Bound.
TRAIN NO. 1.	TRAIN NO. 2.
Lv. Dallas.....7:35 a. m.	Lv. West Salem.....9:00 a. m.
Lv. West Salem.....8:15 a. m.	Lv. Dallas.....9:45 a. m.
Ar. West Salem.....10:15 a. m.	Lv. Falls City.....10:15 a. m.
Ar. Black Rock.....10:25 a. m.	Ar. Black Rock.....10:25 a. m.

TRAIN NO. 3.

Lv. Black Rock.....10:50 a. m.	Lv. Dallas.....11:40 a. m.
Lv. Dallas.....11:40 a. m.	Ar. West Salem.....12:20 p. m.
Ar. West Salem.....12:20 p. m.	Ar. Falls City.....2:10 p. m.

TRAIN NO. 5.

Lv. Falls City.....3:00 p. m.	Lv. West Salem.....3:25 p. m.
Lv. Dallas.....3:35 p. m.	Ar. Falls City.....5:30 p. m.
Ar. West Salem.....5:50 p. m.	Ar. Falls City.....5:50 p. m.

TRAIN NO. 7.

Lv. Falls City.....6:05 p. m.	Lv. West Salem.....6:35 p. m.
Lv. Dallas.....6:35 p. m.	Ar. Falls City.....8:30 p. m.
Ar. West Salem.....8:45 p. m.	Ar. Falls City.....8:45 p. m.

TRAIN NO. 9. (Sunday Only.)

Lv. Dallas.....7:55 a. m.	Lv. West Salem.....8:25 a. m.
Ar. West Salem.....8:15 a. m.	Lv. Falls City.....8:25 p. m.
Ar. Black Rock.....8:35 p. m.	Ar. Black Rock.....8:35 p. m.

TRAIN NO. 11. (Sunday Only.)

Lv. Black Rock.....11:45 a. m.	Lv. West Salem.....12:00 p. m.
Lv. Dallas.....12:35 p. m.	Lv. Falls City.....1:15 p. m.
Ar. West Salem.....1:15 p. m.	Ar. Black Rock.....2:10 p. m.

TRAIN NO. 13. (Sunday Only.)

Lv. Black Rock.....4:00 p. m.	Lv. Falls City.....4:15 p. m.
Lv. Dallas.....4:50 p. m.	Ar. West Salem.....5:30 p. m.
Ar. West Salem.....5:30 p. m.	Ar. Dallas.....5:30 p. m.

Train No. 3 connects at Dallas with morning train from Portland and way points.

INDEPENDENCE & MONMOUTH RY.

Dallas Division. ARRIVING DALLAS.

Passenger No. 65.....8:30 a. m.	Passenger No. 64.....8:30 a. m.
Passenger No. 69.....1:00 p. m.	Passenger No. 68.....11:45 a. m